

## CLAIMS

### WHAT IS CLAIMED IS:

1. A disk device comprising a mechanism unit, comprising:  
a rotational drive unit for driving a disk;  
a clamp mechanism for clamping the disk to the rotational drive unit; and  
a conveying mechanism for conveying the disk toward the rotational drive unit,  
wherein the mechanism unit comprises an attitude set-up member, which is connected to the clamp mechanism and the conveying mechanism and rotates about an axis parallel to the surface of the disk mounted in the mechanism unit, and a drive mechanism for applying a rotational force to the attitude set-up member,  
wherein when the attitude set-up member rotates in a predetermined direction, the clamp mechanism is operated to cancel the clamping of the disk, and the conveying mechanism is set to be able to convey the disk by the rotational force of the attitude set-up member, and  
wherein when the attitude set-up member rotates in a direction opposite to the predetermined direction, the clamp mechanism is set to clamp the disk, and the conveying mechanism is set not to apply a conveying force to the disk by the rotational force of the attitude set-up member.
2. A device according to Claim 1, wherein one side of the attitude set-up member with the rotational center therebetween is directly connected to the clamp mechanism and the other side is directly connected to the conveying mechanism.
3. A device according to Claim 1, wherein an attitude set-up member is provided on both sides of the mechanism unit, respectively, and both attitude set-up members are connected together with the clamp mechanism therebetween.

4. A device according to Claim 1, wherein the conveying mechanism is driven by the power of a motor for driving the drive mechanism.

5. A device according to Claim 1, wherein the conveying mechanism comprises a roller for applying a conveying force to the disk and an arm for rotatably supporting the roller, and

wherein by the rotational force of the attitude set-up member, the arm is rotated, so that the roller is moved to one of a position where the roller contacts the disk and a position where the roller is separated from the disk.

6. A device according to Claim 1, wherein the clamp mechanism comprises a clamp chassis for rotational operation, and

wherein by the power of the drive mechanism, the clamp chassis is rotationally driven while the attitude set-up member is rotated by the rotational force of the clamp chassis.

7. A device according to Claim 6, wherein the clamp chassis is provided with a rotatable clamp arm and having a clamper rotatably attached to the clamp arm for clamping the disk to the rotational drive unit, and

wherein the clamp arm rotates in clamping/unclamping directions along with the rotation of the clamp chassis.

8. A device according to Claim 1, wherein the mechanism unit is supported within an external chassis with an elastic support member therebetween, and

wherein when the attitude set-up member rotates in the predetermined direction, by the abutment of the attitude set-up member to the external chassis, the movement of the mechanism unit is restricted so as not to move within the external chassis, while when the attitude set-up member rotates in a direction opposite to the predetermined direction, the attitude set-up member is separated from the external chassis, so that the mechanism unit is elastically supported by the elastic support member within the external chassis.

9. A device according to Claim 8, wherein when the attitude set-up member rotates in the predetermined direction, the clamp mechanism abuts the external chassis at a position different from the position where the attitude set-up member abuts.

10. A disk device comprising a mechanism unit, comprising:  
a rotational drive unit for driving a disk;  
a clamp mechanism for clamping the disk to the rotational drive unit;  
a conveying mechanism for conveying the disk toward the rotational drive unit;  
an optical head opposing the disk clamped to the rotational drive unit; and  
a head-transfer mechanism for moving the optical head in the radial direction of the disk,  
wherein the mechanism unit comprises an attitude set-up member, which is connected to the clamp mechanism and the conveying mechanism and rotates about an axis parallel to the surface of the disk mounted in the mechanism unit, and a drive mechanism for applying a rotational force to the attitude set-up member,  
wherein when the attitude set-up member rotates in a predetermined direction, the clamp mechanism is operated to cancel the clamping of the disk, and the conveying mechanism is set to be able to convey the disk by the rotational force of the attitude set-up member, and  
wherein when the attitude set-up member rotates in a direction opposite to the predetermined direction, the clamp mechanism is set to clamp the disk, and the conveying mechanism is set not to apply a conveying force to the disk by the rotational force of the attitude set-up member.

11. A device according to Claim 10, wherein one side of the attitude set-up member with the rotational center therebetween is directly connected to the

clamp mechanism and the other side is directly connected to the conveying mechanism.

12. A device according to Claim 10, wherein an attitude set-up member is provided on both sides of the mechanism unit, respectively, and both attitude set-up members are connected together with the clamp mechanism therebetween.

13. A device according to Claim 10, wherein any one of the conveying mechanism and the head-transfer mechanism is driven by the power of a motor for driving the drive mechanism, and

wherein the mechanism unit comprises a switching mechanism for selectively transmitting the motor power to the conveying mechanism or to the head-transfer mechanism.

14. A device according to Claim 10, wherein the conveying mechanism comprises a roller for applying a conveying force to the disk and an arm for rotatably supporting the roller, and

wherein by the rotational force of the attitude set-up member, the arm is rotated, so that the roller is moved to one of a position where the roller contacts the disk and a position where the roller is separated from the disk.

15. A device according to Claim 10, wherein the clamp mechanism comprises a clamp chassis for rotational operation, and

wherein by the power of the drive mechanism, the clamp chassis is rotationally driven while the attitude set-up member is rotated by the rotational force of the clamp chassis.

16. A device according to Claim 15, wherein the clamp chassis is provided with a rotatable clamp arm and having a clamper rotatably attached to the clamp arm for clamping the disk to the rotational drive unit, and

wherein the clamp arm rotates in clamping/unclamping directions along the rotation of the clamp chassis.

17. A device according to Claim 10, wherein the mechanism unit is supported within an external chassis with an elastic support member therebetween, and

wherein when the attitude set-up member rotates in the predetermined direction, by the abutment of the attitude set-up member to the external chassis, the movement of the mechanism unit is restricted so as not to move within the external chassis, while when the attitude set-up member rotates in a direction opposite to the predetermined direction, the attitude set-up member is separated from the external chassis, so that the mechanism unit is elastically supported by the elastic support member within the external chassis.

18. A device according to Claim 8, wherein when the attitude set-up member rotates in the predetermined direction, the clamp mechanism abuts the external chassis at a position different from the position to which the attitude set-up member abuts.

19. A disk device comprising a mechanism unit, comprising:  
a rotational drive unit for driving a disk;  
a clamp mechanism for clamping the disk to the rotational drive unit; and  
a conveying mechanism for conveying the disk toward the rotational drive unit,

wherein the mechanism unit comprises an attitude set-up member rotating about an axis parallel to the surface of the disk mounted in the mechanism unit and a drive mechanism for applying a rotational force to the attitude set-up member,

wherein one side of the attitude set-up member with the rotational center therebetween is connected to the clamp mechanism and the other side is connected to the conveying mechanism,

wherein when the attitude set-up member rotates in a predetermined direction, the clamp mechanism is operated to cancel the clamping of the disk, and

the conveying mechanism is set to be able to convey the disk by the rotational force of the attitude set-up member, and

wherein when the attitude set-up member rotates in a direction opposite to the predetermined direction, the clamp mechanism is set to clamp the disk, and the conveying mechanism is set not to apply a conveying force to the disk by the rotational force of the attitude set-up member.

20. A device according to Claim 19, wherein an attitude set-up member is provided on both sides of the mechanism unit, respectively, and both attitude set-up members are connected together with the clamp mechanism therebetween.

21. A device according to Claim 19, wherein the conveying mechanism is driven by the power of a motor for driving the drive mechanism.

22. A device according to Claim 19, wherein the conveying mechanism comprises a roller for applying a conveying force to the disk and an arm for rotatably supporting the roller, and

wherein by the rotational force of the attitude set-up member, the arm is rotated, so that the roller is moved to one of a position where the roller contacts the disk and a position where the roller is separated from the disk.

23. A device according to Claim 19, wherein the clamp mechanism comprises a clamp chassis for rotational operation, and

wherein by the power of the drive mechanism, the clamp chassis is rotationally driven while the attitude set-up member is rotated by the rotational force of the clamp chassis.

24. A device according to Claim 23, wherein the clamp chassis is provided with a rotatable clamp arm and having a clamper rotatably attached to the clamp arm for clamping the disk to the rotational drive unit, and

wherein the clamp arm rotates in clamping/unclamping directions along with the rotation of the clamp chassis.

25. A device according to Claim 19, wherein the mechanism unit is supported within an external chassis with an elastic support member therebetween, and

wherein when the attitude set-up member rotates in the predetermined direction, by the abutment of the attitude set-up member to the external chassis, the movement of the mechanism unit is restricted so as not to move within the external chassis, while when the attitude set-up member rotates in a direction opposite to the predetermined direction, the attitude set-up member is separated from the external chassis, so that the mechanism unit is elastically supported by the elastic support member within the external chassis.

26. A device according to Claim 25, wherein when the attitude set-up member rotates in the predetermined direction, the clamp mechanism abuts the external chassis at a position different from the position where the attitude set-up member abuts.